RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/049,587
Source: TFW16
Date Processed by STIC: 12/12/2005

ENTERED

IFW16

RAW SEQUENCE LISTING DATE: 12/12/2005
PATENT APPLICATION: US/10/049,587 TIME: 10:03:51

Input Set : A:\Nihw-2-1.app
Output Set: N:\CRF4\12122005\J049587.raw

<110> APPLICANT: Brenneman, Douglas E.
Gozes, Illana
Spong, Catherine Y.
Pinhasov, Albert
Giladi, Eliezer
Ramot University Authority for Applied Research &
Industrial Development Ltd.
The Government of the United States
as represented by The Secretary of the
Department of Health and Human Services
<120> TITLE OF INVENTION: Orally Active Peptides That Prevent Cell Damage and
Death
<130> FILE REFERENCE: 15280W-002100US
<140> CURRENT APPLICATION NUMBER: US 10/049,587
<141> CURRENT FILING DATE: 2002-02-12
<150> PRIOR APPLICATION NUMBER: US 60/149,956
<151> PRIOR FILING DATE: 1999-08-18
<150> PRIOR APPLICATION NUMBER: WO PCT/US00/22861
<151> PRIOR FILING DATE: 2000-08-17
<160> NUMBER OF SEQ ID NOS: 19
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:activity dependent neurotrophic factor I (ADNF I) active core site, ADNF-9, SAL
<400> SEQUENCE: 1
Ser Ala Leu Leu Arg Ser Ile Pro Ala
1 5
<210> SEQ ID NO: 2
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:activity dependent neuroprotective protein (ADNP or ADNF III) active core site, ADNF III-8, NAP
<400> SEQUENCE: 2
Asn Ala Pro Val Ser Ile Pro Gln
1 5

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Input Set : **A:\Nihw-2-1.app**
Output Set: **N:\CRF4\12122005\J049587.raw**

62 <210> SEQ ID NO: 3
63 <211> LENGTH: 89
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I polypeptide
70 <220> FEATURE:
71 <221> NAME/KEY: MOD_RES
72 <222> LOCATION: (1..40)
73 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 1-40 may be
74 present or absent
76 <220> FEATURE:
77 <221> NAME/KEY: MOD_RES
78 <222> LOCATION: (50..89)
79 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 50-89 may be
80 present or absent
82 <400> SEQUENCE: 3
W--> 83 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
84 1 5 10 15
W--> 86 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
87 20 25 30
W--> 89 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Leu Arg Ser Ile Pro
90 35 40 45
W--> 92 Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
93 50 55 60
W--> 95 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
96 65 70 75 80
W--> 98 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
99 85
102 <210> SEQ ID NO: 4
103 <211> LENGTH: 88
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III polypeptide
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (1..40)
113 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 1-40 may be
114 present or absent
116 <220> FEATURE:
117 <221> NAME/KEY: MOD_RES
118 <222> LOCATION: (49..88)
119 <223> OTHER INFORMATION: Xaa = any amino acid, Xaa at positions 49-88 may be
120 present or absent
122 <400> SEQUENCE: 4
W--> 123 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
124 1 5 10 15

W--> 126 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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Input Set : A:\Nihw-2-1.app
Output Set: N:\CRF4\12122005\J049587.raw

```
     127                20                  25                  30
W--> 129 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ala Pro Val Ser Ile Pro Gln
     130          35                  40                  45
W--> 132 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     133      50                  55                  60
W--> 135 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     136  65                  70                  75                  80
W--> 138 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     139                  85
     142 <210> SEQ ID NO: 5
     143 <211> LENGTH: 5
     144 <212> TYPE: PRT
     145 <213> ORGANISM: Artificial Sequence
     147 <220> FEATURE:
     148 <223> OTHER INFORMATION: Description of Artificial Sequence:1-R in formula
     149       for ADNF I polypeptide
     151 <400> SEQUENCE: 5
     152 Val Leu Gly Gly Gly
     153   1               5
     156 <210> SEQ ID NO: 6
     157 <211> LENGTH: 10
     158 <212> TYPE: PRT
     159 <213> ORGANISM: Artificial Sequence
     161 <220> FEATURE:
     162 <223> OTHER INFORMATION: Description of Artificial Sequence:1-R in formula
     163       for ADNF I polypeptide
     165 <400> SEQUENCE: 6
     166 Val Glu Glu Gly Ile Val Leu Gly Gly Gly
     167   1               5                  10
     170 <210> SEQ ID NO: 7
     171 <211> LENGTH: 5
     172 <212> TYPE: PRT
     173 <213> ORGANISM: Artificial Sequence
     175 <220> FEATURE:
     176 <223> OTHER INFORMATION: Description of Artificial Sequence:3-R or 4-R in
     177       formula for ADNF III polypeptide
     179 <400> SEQUENCE: 7
     180 Leu Gly Leu Gly Gly
     181   1               5
     184 <210> SEQ ID NO: 8
     185 <211> LENGTH: 8
     186 <212> TYPE: PRT
     187 <213> ORGANISM: Artificial Sequence
     189 <220> FEATURE:
     190 <223> OTHER INFORMATION: Description of Artificial Sequence:3-R in formula
     191       for ADNF III polypeptide
     193 <400> SEQUENCE: 8
     194 Ser Val Arg Leu Gly Leu Gly Gly
     195   1               5
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Input Set : **A:\Nihw-2-1.app**
Output Set: **N:\CRF4\12122005\J049587.raw**

198 <210> SEQ ID NO: 9
199 <211> LENGTH: 4
200 <212> TYPE: PRT
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence:2-R in formula
205 for ADNF I polypeptide
207 <400> SEQUENCE: 9
208 Val Leu Gly Gly
209 1
212 <210> SEQ ID NO: 10
W--> 213 <400> SEQUENCE: 10
W--> 214 000
217 <210> SEQ ID NO: 11
218 <211> LENGTH: 5
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence:2-R in formula
224 for ADNF I polypeptide
226 <400> SEQUENCE: 11
227 Gly Val Leu Gly Gly
228 1 5
231 <210> SEQ ID NO: 12
232 <211> LENGTH: 4
233 <212> TYPE: PRT
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence:4-R in formula
238 for ADNF III polypeptide
240 <400> SEQUENCE: 12
241 Leu Gly Leu Gly
242 1
245 <210> SEQ ID NO: 13
246 <211> LENGTH: 5
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence:4-R in formula
252 for ADNF III polypeptide
254 <400> SEQUENCE: 13
255 Val Leu Gly Gly Val
256 1 5
259 <210> SEQ ID NO: 14
260 <211> LENGTH: 14
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide

RAW SEQUENCE LISTING DATE: 12/12/2005
PATENT APPLICATION: US/10/049,587 TIME: 10:03:51

Input Set : A:\Nihw-2-1.app
Output Set: N:\CRF4\12122005\J049587.raw

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     267 <400> SEQUENCE: 14
     268 Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     269   1               5                  10
     272 <210> SEQ ID NO: 15
     273 <211> LENGTH: 19
     274 <212> TYPE: PRT
     275 <213> ORGANISM: Artificial Sequence
     277 <220> FEATURE:
     278 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     280 <400> SEQUENCE: 15
     281 Val Glu Glu Gly Ile Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser
     282   1               5                  10                  15
     284 Ile Pro Ala
     287 <210> SEQ ID NO: 16
     288 <211> LENGTH: 13
     289 <212> TYPE: PRT
     290 <213> ORGANISM: Artificial Sequence
     292 <220> FEATURE:
     293 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     295 <400> SEQUENCE: 16
     296 Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     297   1               5                  10
     300 <210> SEQ ID NO: 17
     301 <211> LENGTH: 12
     302 <212> TYPE: PRT
     303 <213> ORGANISM: Artificial Sequence
     305 <220> FEATURE:
     306 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     308 <400> SEQUENCE: 17
     309 Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     310   1               5                  10
     313 <210> SEQ ID NO: 18
     314 <211> LENGTH: 11
     315 <212> TYPE: PRT
     316 <213> ORGANISM: Artificial Sequence
     318 <220> FEATURE:
     319 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     321 <400> SEQUENCE: 18
     322 Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
     323   1               5                  10
     326 <210> SEQ ID NO: 19
     327 <211> LENGTH: 10
     328 <212> TYPE: PRT
     329 <213> ORGANISM: Artificial Sequence
     331 <220> FEATURE:
     332 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
polypeptide
     334 <400> SEQUENCE: 19
     335 Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
```

```
336   1                5                   10
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/12/2005
PATENT APPLICATION: US/10/049,587 TIME: 10:03:52

Input Set : A:\Nihw-2-1.app
Output Set: N:\CRF4\12122005\J049587.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:3; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,50
Seq#:3; Xaa Pos. 51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69
Seq#:3; Xaa Pos. 70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88
Seq#:3; Xaa Pos. 89
Seq#:4; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:4; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,49
Seq#:4; Xaa Pos. 50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68
Seq#:4; Xaa Pos. 69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:4; Xaa Pos. 88

VERIFICATION SUMMARY DATE: 12/12/2005
PATENT APPLICATION: **US/10/049,587** TIME: 10:03:52

Input Set : **A:\Nihw-2-1.app**
Output Set: **N:\CRF4\12122005\J049587.raw**

L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:80
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:80
L:213 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE: